

ABSTRACT

OPTICAL ARTICLE COMPRISING A MULTI-LAYER ANTI-
REFLECTION STACK AND METHOD
FOR PRODUCTION THEREOF

APPLICANT

ESSILOR INTERNATIONAL
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The invention relates to an optical article, for example, an ophthalmic lens, comprising at least one multilayer anti-reflective coating on a transparent substrate made from organic or mineral glass. Said coating comprises successively and starting at the substrate, a layer of material with high refractive index (HI), made from a hybrid organic/inorganic matrix within which are dispersed particles of mineral oxide or chalcogenide with a diameter of 2 to 50 nm and a layer of material with low refractive index (BI), obtained by hardening of a composition comprising at least one silane precursor (I) with 4 hydrolysable groups and at least one fluorosilane precursor (II), said second composition comprising at least 10 % in mass of fluorine in a theoretical dry extract and with a molar ratio I/I+II greater than 80 %

No figure to be published